clarion

Clarion Co., Ltd.
Export Division - 22-3, Shibuya 2-chome, Shibuyaku, Tokyo, 150-8335 Japan Tel: 03-3400-1121
Service Dept. - 50 kamitoda, Toda-shi, Saitama, 335-8511 Japan Tel: 048-443-1111 FAX: 048-433-6996

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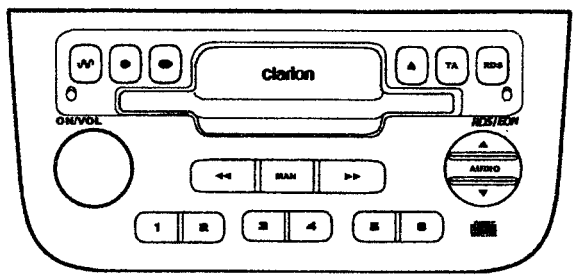
Service Manual



PEUGEOT Automobile Genuine
RDS/FM/MW/LW Radio
CD Stereo

Model PU-2184A
(Genuine No. 96 367 050 80)

■SPECIFICATIONS

Radio section

Tuning system:	PLL frequency synthesizer system
Receive range:	FM 87.5MHz to 108.0MHz
	MW 531kHz to 1,602kHz
	LW 153kHz to 279kHz
Intermediate frequency:	
	FM 10.7±0.2MHz
	MW 450±3kHz
	LW 450±3kHz
Quieting sensitivity:	FM Less than 13dB μ (at 30dB S/N)
	MW Less than 36dB μ (at 20dB S/N)
	LW Less than 43dB μ (at 20dB S/N)
Separation:	FM More than 20dB
Auto tuning stop sensitivity:	
	FM 22±8dB μ
	MW 30±10dB μ
	LW 30±10dB μ

CD player section

Separation:	More than 65dB
S/N ratio:	More than 80dB
Distortion:	Less than 1.0%

General

Load impedance:	4Ω
Output power:	More than 10W×4
Power supply voltage:	DC13.5V
	Negative ground
Current consumption:	Less than 10A
Dimensions(mm):	226.5(W)×105.6(H)×226.5(D)
Weight:	1.55kg

※ Specifications and design are subject to change without notice for further improvement.

■COMPONENTS

PU-2184A-A

Main unit	------	1

■NOTE

※ We cannot supply PWB with component parts in principle. When a circuit on PWB has failure , please repair it by component parts base. Parts which are not mentioned in service manual are not supplied.

■ To engineers in charge of repair or inspection of our products.

Before repair or inspection, make sure to follow the instructions so that customers and Engineers in charge of repair or inspection can avoid suffering any risk or injury.

1. Use specified parts.
   The system uses parts with special safety features against fire and voltage. Use only parts with equivalent characteristics when replacing them.
   The use of unspecified parts shall be regarded as remodeling for which we shall not be liable. The onus of product liability (PL) shall not be our responsibility in cases where an accident or failure is as a result of unspecified parts being used.
2. Place the parts and wiring back in their original positions after replacement or re-wiring.
   For proper circuit construction, use of insulation tubes, bonding, gaps to PWB, etc, is involved. The wiring connection and routing to the PWB are specially planned using clamps to keep away from heated and high voltage parts. Ensure that they are placed back in their original positions after repair or inspection.
   If extended damage is caused due to negligence during repair, the legal responsibility shall be with the repairing

company.

3. Check for safety after repair.
   Check that the screws, parts and wires are put back securely in their original position after repair. Ensure for safety reasons there is no possibility of secondary ploblems around the repaired spots.
   If extended damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.
4. Caution in removal and making wiring connection to the parts for the automobile.
   Disconnect the battery terminal after turning the ignition key off. If wrong wiring connections are made with the battery connected, a short circuit and/or fire may occur. If extensive damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.
5. Cautions regarding chips.
   Do not reuse removed chips even when no abnormality is observed in their appearance. Always replace them with new ones. (The chip parts include resistors, capacitors, diodes, transistors, etc). The negative pole of tantalum capacitors is highly susceptible to heat, so use special care when replacing them and check the operation afterwards.
6. Cautions in handling flexible PWB
   Before working with a soldering iron, make sure that the iron tip temperature is around 270℃. Take care not to apply the iron tip repeatedly(more than three times)to the same patterns. Also take care not to apply the tip with force.
7. Turn the unit OFF during disassembly and parts replacement. Recheck all work before you apply power to the unit.
8. Cautions in checking that the optical pickup lights up.
   The laser is focused on the disc reflection surface through the lens of the optical pickup. When checking that the laser optical diode lights up, keep your eyes more than 30cms away from the lens. Prolonged viewing of the laser within 30cms may damage your eyesight.
9. Cautions in handling the optical pickup
   The laser diode of the optical pickup can be damaged by electrostatic charge caused by your clothes and body. Make sure to avoid electrostatic charges on your clothes or body, or discharge static electricity before handling the optical pickup.

9-1. Laser diode
   The laser diode terminals are shorted for transportation in order to prevent electrostatic damage. After replacement, open the shorted circuit. When removing the pickup from the mechanism, short the terminals by soldering them to prevent this damage.

9-2. Actuator
   The actuator has a powerful magnetic circuit. If a magnetic material is put close to it. its characteristics will change. Ensure that no foreign substances enter through the ventilation slots in the cover.

9-3. Cleaning the lens
   Dust on the optical lens affects performance. To clean the lens, apply a small amount of isopropylalcohol to lens paper and wipe the lens gently.

■ADJUSTMENTS

Item	Procedure	Measuring instrument
FM S-meter	1. Press the RDS button and M6 button to set RDS test mode. 2. Input a 98.1MHz/30dB μ(1kHz,30% mod) signal. 3. Adjust VR101 of the tuner pack so that an output of TP101 is 2.8V.	SSG Milli volt meter

■EXPLANATION OF IC

■ μPD784216BGC-103-8EU 052-1156-00 CD, Radio, VAN-Bus Controller

1. Outward Form : 100 pins QFP

2. Terminal Description

pin 1	KI 3	IN	Key scan signal input.
pin 2	KI 4	IN	Key scan signal input.
pin 3	KI 5	IN	Key scan signal input.
pin 4	RDS DATA	IN	RDS serial data input.
pin 5	NOISE CLR	O	Noise clear signal output.
pin 6	RDS MUTE	O	"H"= RDS mute ON.
pin 7	FM SD	IN	"H"= FM station detected.
pin 8	AM SD	IN	"H"= AM station detected.
pin 9	VDD	-	Positive supply voltage.
pin 10	X 2	-	Crystal connection (12MHz).
pin 11	X 1	IN	Crystal connection (12MHz).
pin 12	VSS	-	Ground.
pin 13	XT 2	-	Not in use.
pin 14	XT 1	IN	Not in use.
pin 15	RESET_	IN	Reset signal input. "L"= Reset.
pin 16	SUB SYNC	IN	Sub cord block synchronizing pulse input from CD.
pin 17	VAN INT_	IN	VAN interrupt signal input. Negative logic.
pin 18	RDS CLCK	IN	RDS clock pulse input.
pin 19	KI 0	IN	Key scan signal input.
pin 20	BACKUP DET	IN	Backup interrupt signal input. "H"= Backup ON.
pin 21	+VAN DET_	IN	+VAN power supply ON signal input. "L"= +VAN ON.
pin 22	N.C.	IN	Not in use.
pin 23	A VDD	-	Positive supply voltage.
pin 24	A Vref 0	-	Reference voltage input for A/D converter.
pin 25	NOISE IN	IN	Input terminal of A/D converter to detect the Noise of FM.
pin 26	N.C.	IN	Not in use.
pin 27	S METER	IN	Input terminal of Internal A/D converter to detect the Voltage of FM S meter.
pin 28	DIAG PHATM	IN	Input terminal of Internal A/D converter to detect the PHANTOM circuit.
pin 29	PLL DI	IN	PLL serial data input.
pin 30	N.C.	IN	Not in use.
pin 31	N.C.	IN	Not in use.
pin 32	MUTE DET	IN	Input terminal of Internal A/D converter to detect the Voltage of Backup Line.
pin 33	A VSS	-	Ground.
pin 34	SD SPD UP	O	FM SD speed control signal output. "L"= FM seek.
pin 35	EEPROM DI	IN	Serial data input from EEPROM.
pin 36	A Vref 1	-	Connect to VDD.
pin 37	PLL/ROM DO	O	Serial data output to PLL and EEPROM.
pin 38	PLL/ROM CK	O	Clock pulse output to PLL and EEPROM.
pin 39	EEPROM CE	O	Chip enable signal output to EEPROM.
pin 40	PLL CE	O	Chip enable signal output to PLL.
pin 41	N.C.	IN	Not in use.
pin 42	A MUTE_	O	Mute signal output to Audio power amplifier IC. "L"= Mute ON.
pin 43	JBL AMP RM	O	"H"= External Audio amplifier ON.
pin 44	BEEP	O	Beep output.
pin 45	VOL CLK	O	Clock pulse output to Electric volume IC.
pin 46	VOL DATA	O	Serial data output to Electric volume IC.
pin 47	VOL CE	O	Chip enable signal output to Electric volume IC.

pin 48 : VOL MUTE_ : O : Mute signal output to Electric volume IC. "L"= Mute ON.
pin 49 : 5V REM_ : O : 5V power supply circuit control signal output. "L"= ON.
pin 50 : 14V REM : O : 14V power supply circuit control signal output. "H"= ON.
pin 51 : +VAN ON : O : "H"= ACC(+VAN)ON.
pin 52 : TEL MUTE : IN : "H"= Tel mute ON.
pin 53 : N.C. : IN : Not in use.
pin 54 : CD 8V ON : O : CD 8V power supply circuit control signal output. "H"= ON.
pin 55 : CD 5V ON : O : CD 5V power supply circuit control signal output. "H"= ON.
pin 56 : AD 0 : I/O : Data input/output terminal of VAN-Bus.
pin 57 : AD 1 : I/O : Data input/output terminal of VAN-Bus.
pin 58 : AD 2 : I/O : Data input/output terminal of VAN-Bus.
pin 59 : AD 3 : I/O : Data input/output terminal of VAN-Bus.
pin 60 : AD 4 : I/O : Data input/output terminal of VAN-Bus.
pin 61 : AD 5 : I/O : Data input/output terminal of VAN-Bus.
pin 62 : AD 6 : I/O : Data input/output terminal of VAN-Bus.
pin 63 : AD 7 : I/O : Data input/output terminal of VAN-Bus.
pin 64 : N.C. : IN : Not in use.
pin 65 : N.C. : IN : Not in use.
pin 66 : N.C. : IN : Not in use.
pin 67 : N.C. : IN : Not in use.
pin 68 : CD 0 FLAG : IN : 0 flag input from CD.
pin 69 : CD BUS 0 : I/O : Data bus line connected to CD.
pin 70 : CD BUS 1 : I/O : Data bus line connected to CD.
pin 71 : CD BUS 2 : I/O : Data bus line connected to CD.
pin 72 : VSS : - : Ground.
pin 73 : CD BUS 3 : I/O : Data bus line connected to CD.
pin 74 : CD DET : IN : Not in use.
pin 75 : VAN WU : O : Wake up signal output to VAN IC.
pin 76 : VAN RESET : O : Reset signal output to VAN IC.
pin 77 : VAN RD_ : O : Read strobe signal output to VAN IC. Negative logic.
pin 78 : VAN WR_ : O : Write strobe signal output to VAN IC. Negative logic.
pin 79 : VAN CS : O : Chip select signal output to VAN IC.
pin 80 : VAN ALE : O : Latch strobe signal output to VAN IC.
pin 81 : VDD : - : Positive supply voltage.
pin 82 : DIMMER OUT : O : Dimmer signal output.
pin 83 : CD BUCK : O : Clock pulse output to CD.
pin 84 : CD CEE_ : O : Chip enable signal output to CD.
pin 85 : CD RESET_ : O : Reset pulse output to CD. "L"= Reset.
pin 86 : CD CHU SW : IN : Chuking signal input from CD.
pin 87 : CD TR A : IN : Photo sensor signal input from CD.
pin 88 : CD TR B : IN : Photo sensor signal input from CD.
pin 89 : CD TR C : IN : Photo sensor signal input from CD.
pin 90 : CD CCW : O : Loading motor control signal output. Ref. Table 1.
pin 91 : CD CW : O : Loading motor control signal output. Ref. Table 1.
pin 92 : VOL A : IN : Volume control pulse input from Volume switch.
pin 93 : VOL B : IN : Volume control pulse input from Volume switch.
pin 94 : VPP : - : Connect to ground.
pin 95 : KO 0 : O : Key scan signal output.
pin 96 : KO 1 : O : Key scan signal output.
pin 97 : KO 2 : O : Key scan signal output.
pin 98 : KO 3 : O : Key scan signal output.
pin 99 : KI 1 : IN : Key scan signal input.
pin100 : KI 2 : IN : Key scan signal input.

Table1.Loading motor control signal output.

	Loading	Eject	Brake	Stop
CD CW (pin 91)	H	L	H	L
CD CCW(pin 90)	L	H	H	L

■ TC9462F 051-6342-00 Digital signal processor for CD

1. Outward Form : 100 pins QFP
2. Function : Sync. separation, EFM, Error correction
3. Terminal Description

pin 1 : TEST0 : IN : Not in use.
pin 2 : HSO : O : Playback mode flag output. Ref. Table 1.
pin 3 : UHSO : O : Playback mode flag output. Ref. Table 1.
pin 4 : EMPH : O : Emphasis flag output of Sub cord Q data. "H"= emphasis ON.
pin 5 : LR CK : O : Channel clock output. (44.1kHz)
pin 6 : VSS : — : Ground.
pin 7 : B CK : O : Bit clock output. (1.4122MHz)
pin 8 : A OUT : O : Audio data output.
pin 9 : D OUT : O : Digital output.
pin 10 : MBOV : O : Buffer memory over signal output.
pin 11 : IPF : O : Compensation flag output.
pin 12 : SBOK : O : CRCC judgement output of Sub Q data. "H"=OK.
pin 13 : CLOCK : I/O : Clock output/input to read Sub cord P to W.
pin 14 : VDD : — : Positive supply voltage terminal.
pin 15 : VSS : — : Ground.
pin 16 : DATA : O : Sub cord P to W data output.
pin 17 : SF SY : O : Frame synchronize signal output.
pin 18 : SB SY : O : Sub cord block synchronize signal output.
pin 19 : SP CK : O : Clock signal output to read processor status. (176.4kHz)
pin 20 : SP DA : O : Processor status signal output.
pin 21 : COFS : O : Correction frame clock output. (7.35kHz)
pin 22 : MONIT : O : Not in use.
pin 23 : VDD : — : Positive supply voltage terminal.
pin 24 : TESIO0 : IN : Not in use.
pin 25 : P2Vref : — : (Reference voltage)×2 terminal for PLL.
pin 26 : HSSW : O : pin26=Vref : ×2-speed or ×4-speed.
pin 27 : Z DET : O : 0 flag output of 1 bit DAC.
pin 28 : PDO : O : Error signal output. (EFM - PLCK)
pin 29 : TMAX S : O : TMAX detect signal output.
pin 30 : TMAX : O : TMAX detect signal output.
pin 31 : LPF N : IN : Inverted input of amplifier for LPF.
pin 32 : LPF O : O : Output of amplifier for LPF.
pin 33 : PVref : — : Reference voltage terminal for PLL.
pin 34 : VCOref : — : Reference voltage terminal for VCO.
pin 35 : VCO F : O : Output of filter for VCO.
pin 36 : AVSS : — : Analog ground.
pin 37 : SLCO : O : Output of DAC for data slice level.
pin 38 : RF IN : IN : RF signal input.
pin 39 : AVDD : — : Positive voltage supply for analog.
pin 40 : RFCT : IN : Center level input of RFRP signal.
pin 41 : RFZI : IN : RFRP 0 cross.
pin 42 : RFRP : IN : RF ripple signal input.
pin 43 : FEI : IN : Focus error signal input.
pin 44 : SBAD : IN : Sub beam addition signal input.
pin 45 : TSIN : IN : Not in use.
pin 46 : TEI : IN : Tracking error input.
pin 47 : TEZI : IN : Tracking error , 0 cross input.
pin 48 : FO O : O : Focusing equalizer output.
pin 49 : TR O : O : Tracking equalizer output.
pin 50 : Vref : — : Reference voltage for analog.
pin 51 : RFGC : O : RF gain control signal output.
pin 52 : TEBC : O : Tracking balance control signal output.
pin 53 : FM O : O : Field equalizer output.
pin 54 : FVO : O : Field error or Field search EQ output.
pin 55 : DMO : O : Disc equalizer output.
pin 56 : 2Vref : — : 2 × Vref for analog.
pin 57 : SEL : O : Laser ON and UHS="H" : output "H"
pin 58 : FLG A : O : Monitor signal output.
pin 59 : FLG B : O : Monitor signal output.
pin 60 : FLG C : O : Monitor signal output.
pin 61 : FLG D : O : Monitor signal output.
pin 62 : VDD : — : Positive supply voltage.
pin 63 : VSS : — : Ground.
pin 64 : IO 0 : I/O : I/O port.
pin 65 : IO 1 : I/O : I/O port.
pin 66 : IO 2 : I/O : I/O port.
pin 67 : IO 3 : I/O : I/O port.
pin 68 : DMOUT : IN : Not in use.
pin 69 : CKSE : IN : Not in use.
pin 70 : DACT : IN : Not in use.
pin 71 : TESIN : IN : Not in use.
pin 72 : TESIO1 : IN : Not in use.
pin 73 : VSS : — : Ground.
pin 74 : PX I : IN : DSP oscillator input.
pin 75 : PX O : O : DSP oscillator output.
pin 76 : VDD : — : Positive supply voltage.
pin 77 : X VSS : — : Ground for system oscillator clock.
pin 78 : X I : IN : System clock oscillator input.
pin 79 : X O : O : System clock oscillator output.
pin 80 : X VDD : — : Positive supply voltage for system clock oscillator.
pin 81 : D VSR : — : Positive supply voltage for right channel DAC.
pin 82 : R O : O : Right channel data non-inverted output.
pin 83 : D VDD : — : Positive supply voltage for DAC.
pin 84 : D Vref : — : Reference voltage.
pin 85 : L O : O : Left channel data non-inverted output.
pin 86 : D VS L : — : Positive supply voltage for left channel DAC.

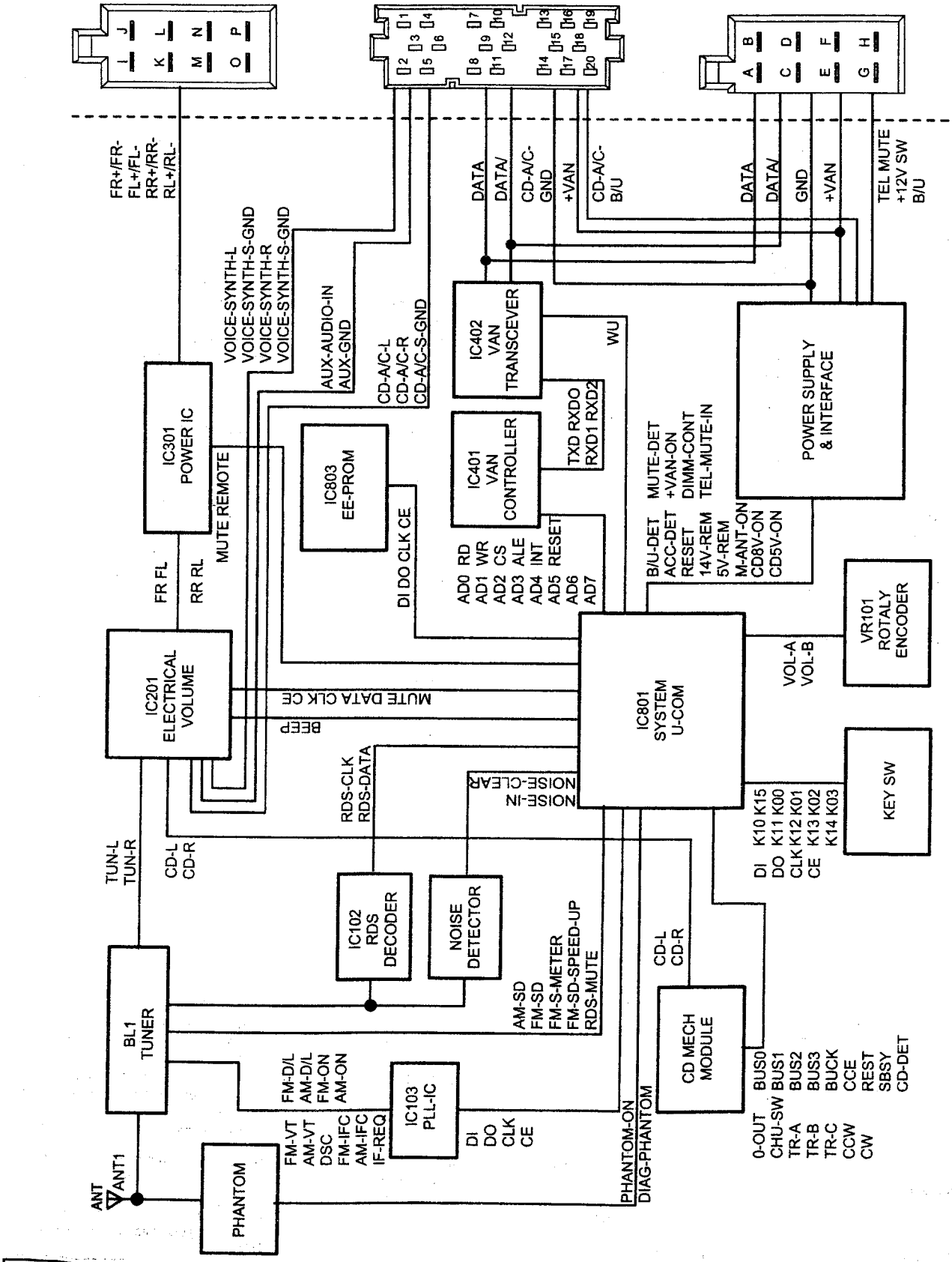
pin 87 : TEST 1 : IN : Not in use.
pin 88 : TEST 2 : IN : Not in use.
pin 89 : TEST 3 : IN : Not in use.
pin 90 : BUS 0 : I/O : Data bus to micro computer.
pin 91 : BUS 1 : I/O : Data bus to micro computer.
pin 92 : BUS 2 : I/O : Data bus to micro computer.
pin 93 : BUS 3 : I/O : Data bus to micro computer.
pin 94 : VDD : — : Positive supply voltage.
pin 95 : VSS : — : Ground.
pin 96 : BUS CK : IN : Clock input for data bus.
pin 97 : CCE : IN : Chip enable signal input. Negative logic.

pin 98 : TEST 4 : IN : Not in use.
pin 99 : TS MOD : IN : Not in use.
pin100 : RST : IN : Reset signal input. Negative logic.

Table 1. Playback speed flag.

Play back speed	UHSO(pin3)	HSO(pin2)
Normal speed × 1	H	H
Normal speed × 2	H	L
Normal speed × 4	L	H
----------	L	L

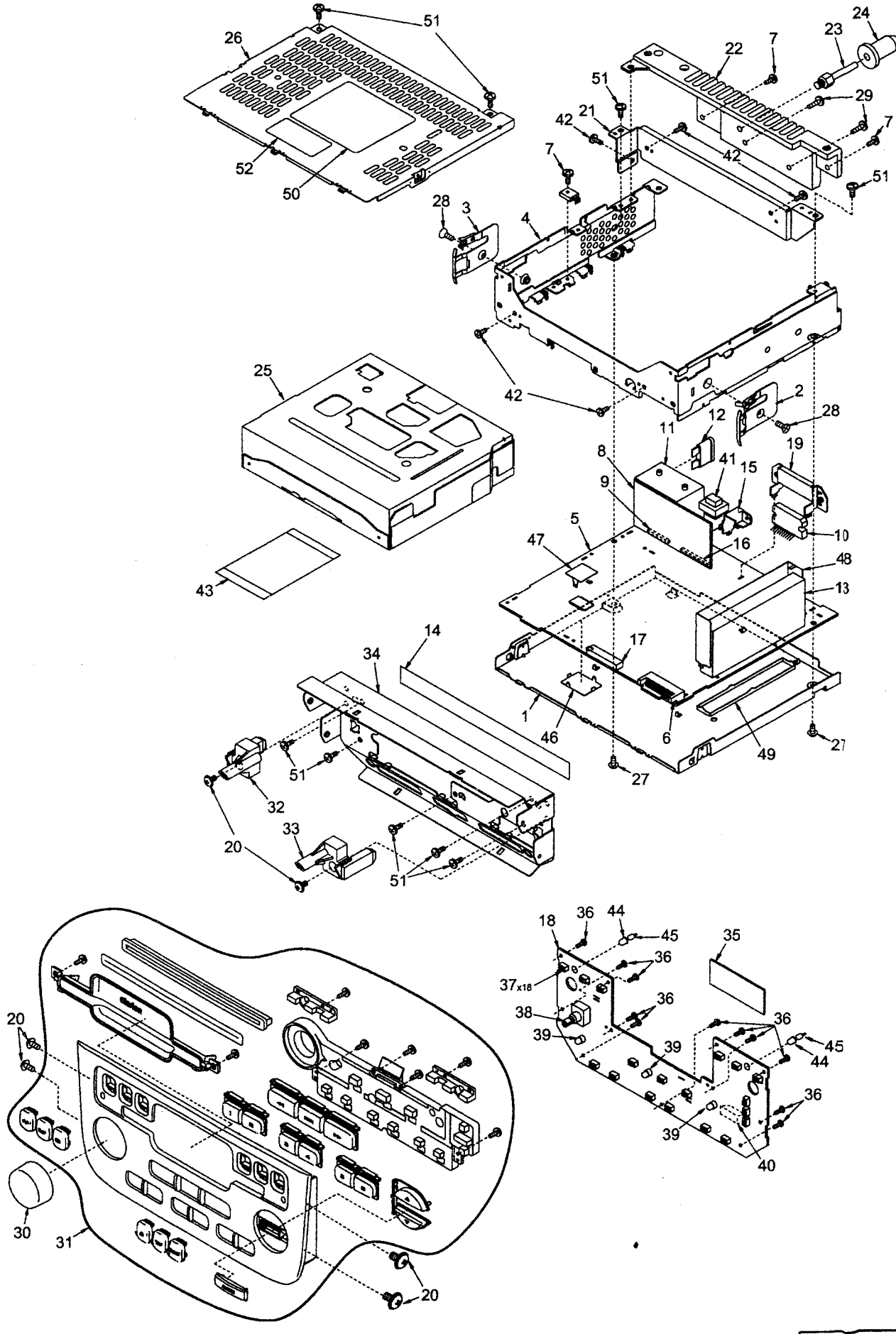
■BLOCK DIAGRAM



■EXPLODED VIEW • PARTS LIST

Main section

The parts list is on next page.



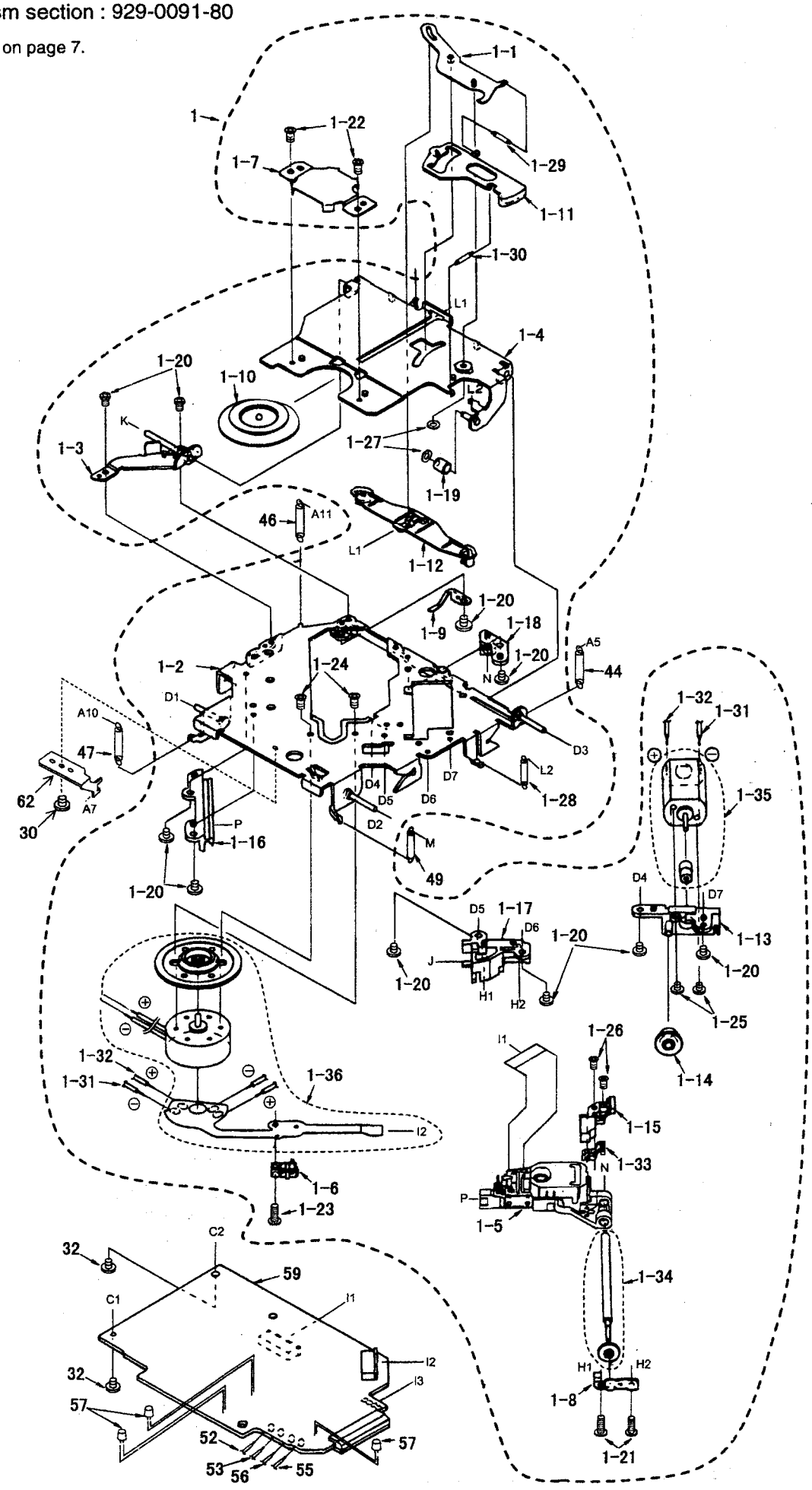
Main section

NO.	PART NO.	DESCRIPTION	Q'TY
1	311-1765-01	LOWER CASE	1
2	750-3318-00	SPRING(R)	1
3	750-3317-00	SPRING(L)	1
4	312-0433-10	MAIN CHASSIS	1
5	039-1429-01	MAIN PWB (WITHOUT COMPONENT)	1
6	076-0540-18	PLUG	1
7	714-2606-81	MACHINE SCREW(M2.6×6)	3
8	039-1354-00	ISO PWB (WITHOUT COMPONENT)	1
9	076-0324-10	PLUG	1
10	051-2013-00	IC	1
11	074-1159-01	OUTLET SOCKET	1
12	060-0057-56	AUTO FUSE(10A)	1
13	880-2084A	AM/FM TUNER PACK	1
14	347-5925-00	HOLE COVER	1
15	331-2577-00	ISO HOLDER	1
16	076-0324-14	PLUG	1
17	074-1186-26	PLUG	1
18	039-1431-00	SWITCH PWB (WITHOUT COMPONENT)	1
19	331-2574-00	IC HOLDER	1
20	780-2605-00	IT-SCREW(M2.6×5)	6
21	331-2637-00	MECHANISM BRACKET	1
22	313-1750-00	HEAT SINK	1
23	716-1831-00	REAR BOLT	1
24	345-4847-01	STOPPER	1
25	929-0091-80	CD MECHANISM	1
26	310-1669-01	UPPER CASE	1

NO.	PART NO.	DESCRIPTION	Q'TY
27	716-0878-00	IT-SCREW	2
28	731-3008-40	TAPTIGHT SCREW(M3×8)	2
29	714-2610-81	MACHINE SCREW(M2.6×10)	2
30	380-5430-00	KNOB	1
31	940-7869-61	ESCUTCHEON ASSY	1
32	335-5750-01	MOUNTING MOLD(L)	1
33	335-5749-01	MOUNTING MOLD(R)	1
34	309-0716-01	FRONT PLATE	1
35	345-8315-00	INSULATOR	1
36	716-0778-00	WAVE SCREW(M2×6)	11
37	013-3741-11	SWITCH	18
38	016-0010-12	VARIABLE RESISTOR	1
39	017-0454-00	PILOT LAMP(14V 40mA)	3
40	074-1211-18	OUTLET SOCKET	1
41	009-9006-60	CHOKE COIL	1
42	714-2303-81	MACHINE SCREW(M2.3×3)	5
43	816-2488-00	FLAT WIRE	1
44	345-3814-79	LAMP CAP	2
45	017-0345-09	PILOT LAMP (14V 40mA)	2
46	331-2573-00	SHIELD CASE	1
47	331-2578-00	SHIELD CASE	1
48	331-2638-00	SHIELD CASE	1
49	331-2639-00	SHIELD CASE	1
50	286-8497-24	SETPLATE	1
51	731-2608-80	TAPTIGHT SCREW(M2.6×8)	9
52	285-1633-10	GUIDE LABEL	1

CD mechanism section : 929-0091-80

The parts list is on page 7.



CD mechanism section : 929-0091-80

NO.	PART NO.	DESCRIPTION	Q'TY
1	HBS-463-100	DRIVE UNIT	1
1-1	966-0314-21	STOP LINK ASSY	1
1-2	966-0447-22	DR-PLATE ASSY	1
1-3	966-0448-21	SIDE PLATE ASSY	1
1-4	966-0449-22	CLAMP LINK ASSY	1
1-5	969-0050-51	PICK UP UNIT	1
1-6	013-7100-00	LIMIT SWITCH	1
1-7	620-0198-03	CLAMPER PLATE	1
1-8	620-0491-03	SPRING PLATE	1
1-9	620-0690-01	RATTLE PLATE	1
1-10	621-0205-02	CLAMPER LINK	1
1-11	621-0251-03	ROCK LINK	1
1-12	621-0252-03	DISC STOPPER	1
1-13	621-0253-02	MOTOR HOLDER	1
1-14	621-0255-02	SECOND GEAR	1
1-15	621-0375-00	SH-BASE	1
1-16	621-0357-03	PICK UP GUIDE	1
1-17	621-0358-02	LS-HOLDER F	1
1-18	621-0359-02	LS - HOLDER R	1
1-19	622-1073-02	CLAMPER ROLLER	1
1-20	714-2003-81	MACHINE SCREW(M2×3)	10
1-21	716-0675-00	SCREW(M2×2.5)	2
1-22	716-1468-00	SCREW(M2×2.5)	2
1-23	716-1555-00	WAVE SCREW	1
1-24	716-1733-00	SCREW(M2×2.5)	2
1-25	732-2004-11	SEMS SCREW	2
1-26	739-1735-17	PRECISION SCREW	2
1-27	746-0761-00	SCREW(M2×2.5)	2
1-28	750-3097-03	CLAMPER SPRING	1
1-29	750-3098-00	L-LINK SPRING	1
1-30	750-3099-00	ES-SPRING	1
1-31	816-2372-00	WIRE(BLU)	1
1-32	816-2373-00	WIRE(WHT)	1
1-33	966-0454-00	SH-ROCK ASSY	1
1-34	HBS-432-100	LS-GEAR ASSY	1
1-35	SMA-146-100	SLEDMOTOR ASSY	1
1-36	SMA-151-100	SPINDLE MOTOR ASSY	1
2	966-0308-10	CHASSIS ASSY	1
3	966-0309-20	L-DISC-G-ASSY	1
4	966-0310-21	SHIFT-P-CH-ASSY	1
5	966-0312-21	SHIFT-P-ASSY	1
6	966-0358-21	DRIVE-L-PL-ASSY	1
7	966-0359-21	SIDE-L-PL-ASSY	1
8	013-3879-01	CHUCKING SWITCH	1
9	039-0586-01	CHUCKING SWITCH PWB (WITHOUT COMPONENT)	1
10	039-0588-01	SENSOR PWB (WITHOUT COMPONENT)	1
11	060-0252-01	FHOTO TR (PT4850F)	3
12	345-7513-01	CLAMPER SHEET	1
13	345-7514-00	S-PWB SHEET	1

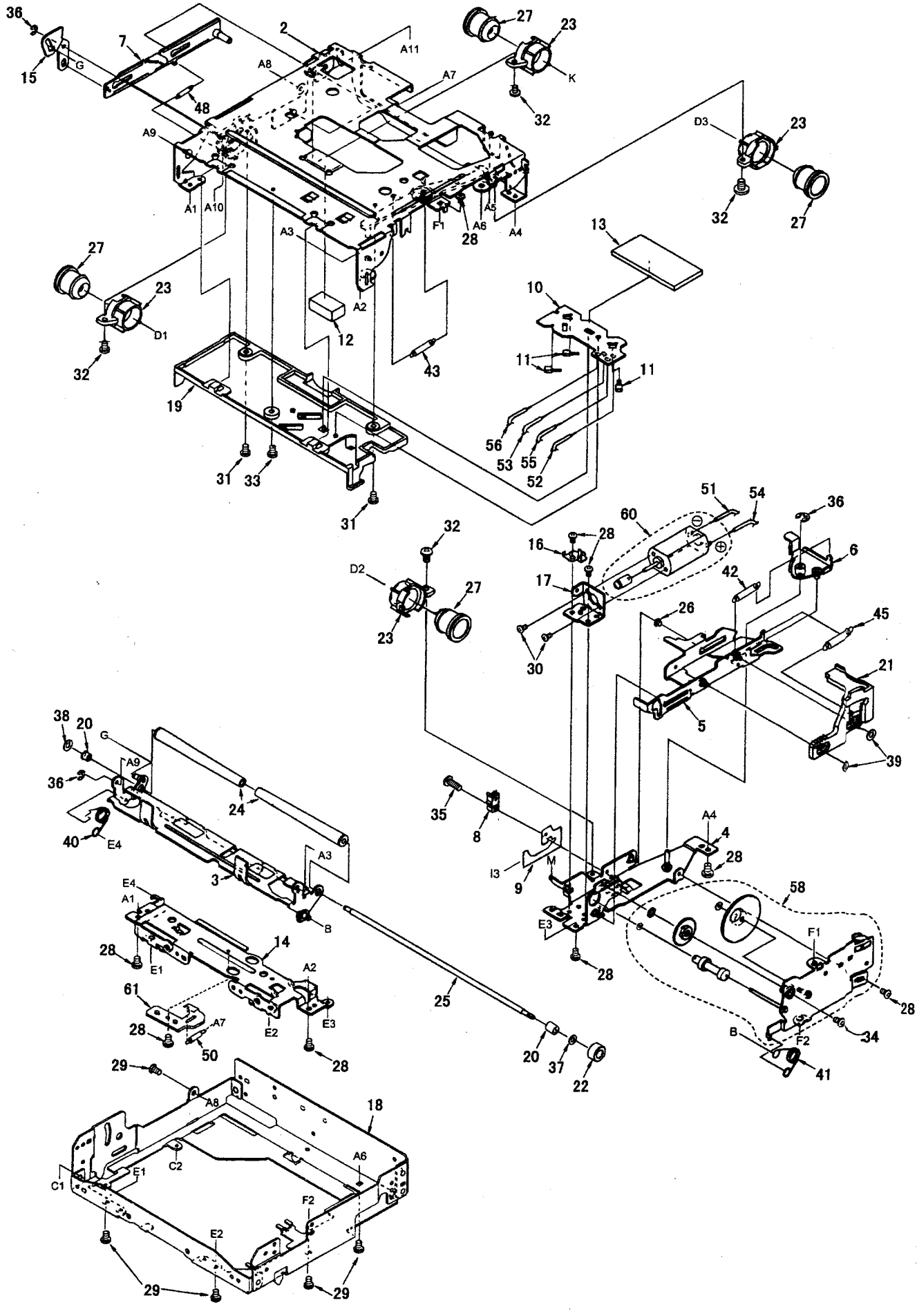
NO.	PART NO.	DESCRIPTION	Q'TY
14	620-0485-04	FRONT PLATE	1
15	620-0488-01	S-L-LINK PLATE	1
16	620-0489-02	MOTOR PLATE	1
17	620-0492-01	MOTOR BRACKET	1
18	620-0773-81	MECH BRACKET	1
19	621-0402-01	U-DISC GUIDE F	1
20	621-0243-02	ROLLER SLAVE	2
21	621-0248-07	RACK GEAR	1
22	621-0249-02	ROLLER GEAR	1
23	621-0250-01	DAMPER HOLDER	4
24	621-0258-03	LOADING ROLLER	2
25	622-1072-05	ROLLER SHAFT	1
26	622-1219-01	SHIFT ROLLER	1
27	629-0058-00	DAMPER-VA	4
28	714-2003-81	MACHINE SCREW(M2X3)	9
29	714-2603-81	MACHINE SCREW(M2.6X3)	5
30	716-1468-00	SCREW(M2×2.5)	3
31	716-1507-00	SCREW(M2×3)	2
32	716-1670-00	SCREW(M2×3)	6
33	716-1677-00	SCREW(M2×5)	1
34	716-1704-00	SCREW(M2×7)	1
35	716-1742-00	SCREW(M2×5)	1
36	743-1500-10	E-RING	3
37	746-0712-03	WASHER	1
38	746-0762-00	WASHER	1
39	746-0877-02	WASHER	2
40	750-3090-02	RO-SPRING L	1
41	750-3091-03	RO-SPRING R	1
42	750-3092-03	SHIFT SPRING	1
43	750-3094-00	S-ARM SPRING	1
44	750-3096-01	DR-SPRING R	1
45	750-3098-00	L-LINK SPRING	1
46	750-3164-00	DR-SPRING-LR	1
47	750-3188-00	DR-SPRING-F-B	1
48	750-3189-00	SIDE-L-SPRING	1
49	750-3201-00	DR-SPRING-F-R	1
50	750-3348-00	CENTER SPRING	1
51	800-4904-60	WIRE(BLK)	1
52	800-4910-60	WIRE(BLK)	1
53	801-4910-60	WIRE(BRN)	1
54	802-4904-60	WIRE(RED)	1
55	802-4910-60	WIRE(RED)	1
56	804-4910-60	WIRE(YEL)	1
57	001-0563-00	DIODE	3
58	HBS-430-100	GEAR PLATE ASSY	1
59	039-1088-03	CD MECH PWB (WITHOUT COMPONENT)	1
60	SMA-147-100	LOADING MOTOR ASSY	1
61	620-0804-00	CE-SP-PLATE F	1
62	620-0803-00	CE-SP-PLATE R	1

■ELECTRICAL PARTS LIST

Main PWB section(B1)

Note) Several different parts of the same reference number are alternative parts. One of those parts is used in the set.

REF No.	PART No.	DESCRIPTION
BL101	880-2084A	AM-FM-TUNER
C1	183-1063-31	16V10 μF
C2	178-3332-78	0.033 μF
C3	178-1042-78	0.1 μF
C4	176-2201-00	22pF CH
C6	183-4763-11	6.3V47 μF
C101	178-2232-78	0.022 μF
C102	178-2232-78	0.022 μF
C103	178-3322-78	3300pF
C105	183-2253-62	50V2.2 μF
C106	178-3312-78	330pF
C107	178-5612-78	560pF
C108	176-4701-00	47pF CH
C109	176-8201-00	82pF CH
C110	178-2232-78	0.022 μF
C111	178-1042-78	0.1 μF
C113	183-4763-11	6.3V47 μF
C114	178-1022-78	1000pF
C115	178-2212-78	220pF
C116	178-4732-78	0.047 μF
C117	178-2232-78	0.022 μF
C118	178-2232-78	0.022 μF
C121	178-2232-78	0.022 μF
C122	178-1532-78	0.015 μF
C123	178-8222-78	8200pF
C124	178-1222-78	1200pF
C125	178-1042-78	0.1 μF
C126	178-2212-78	220pF
C127	178-1032-78	0.01 μF
C128	178-6822-78	6800pF
C129	183-1053-61	50V1 μF
C130	178-1532-78	0.015 μF
C131	176-1011-00	100pF CH
C132	178-1532-78	0.015 μF
C133	176-1011-00	100pF CH
C134	176-1011-00	100pF CH
C136	183-4763-11	6.3V47 μF
C137	176-1501-00	15pF CH
C138	183-2253-62	50V2.2 μF
C139	183-2253-62	50V2.2 μF
C140	176-1801-00	18pF CH
C141	178-1042-78	0.1 μF
C142	178-1032-78	0.01 μF
C143	178-1042-78	0.1 μF
C144	178-4732-78	0.047 μF
C145	178-1032-78	0.01 μF
C146	178-1032-78	0.01 μF
C147	176-1011-00	100pF CH
C148	178-1222-78	1200pF
C149	178-1222-78	1200pF
C201	178-1032-78	0.01 μF
C202	178-1032-78	0.01 μF
C203	183-4753-51	35V4.7 μF
C204	183-1053-61	50V1 μF
C205	183-1053-61	50V1 μF
C206	183-2263-11	6.3V22 μF
C207	183-2263-11	6.3V22 μF
C208	183-1053-61	50V1 μF
C209	183-1053-61	50V1 μF
C210	183-4753-51	35V4.7 μF
C211	042-0505-04	10V33 μF
C212	178-4732-78	0.047 μF
C213	178-4732-78	0.047 μF
C214	176-4711-00	470pF CH
C215	183-1053-61	50V1 μF
C216	183-1053-61	50V1 μF
C217	176-4711-00	470pF CH
C218	183-1063-31	16V10 μF
C219	183-1063-31	16V10 μF
C220	183-1063-31	16V10 μF
C221	183-1063-31	16V10 μF
C222	183-1056-61	50V1 μF NP
C223	183-1056-61	50V1 μF NP
C224	178-3332-78	0.033 μF
C225	178-3332-78	0.033 μF
C226	178-1032-78	0.01 μF
C227	178-1032-78	0.01 μF
C228	178-3312-78	330pF
C229	178-3312-78	330pF
C230	183-1063-31	16V10 μF
C231	183-1063-31	16V10 μF
C232	178-1042-78	0.1 μF
C233	183-4743-61	50V0.47 μF
C234	183-4743-61	50V0.47 μF
C235	183-4743-61	50V0.47 μF
C236	183-4743-61	50V0.47 μF
C237	178-1032-78	0.01 μF
C238	178-1032-78	0.01 μF
C239	178-2732-78	0.027 μF
C301	183-1053-61	50V1 μF
C302	183-4763-31	16V47 μF
C303	178-1022-78	1000pF
C304	178-1022-78	1000pF
C305	178-1022-78	1000pF
C306	178-1022-78	1000pF
C307	178-4742-78	0.47 μF
C308	172-1041-11	0.1 μF
C309	184-3383-32	16V3300 μF
C310	183-2263-11	6.3V22 μF
C401	176-4701-00	47pF CH
C402	176-5601-00	56pF CH
C403	176-3301-00	33pF CH
C404	176-4701-00	47pF CH
C405	176-4701-00	47pF CH
C406	042-0416-05	16V15 μF TAN
C407	178-1032-78	0.01 μF
C408	042-0452-02	16V100 μF
C409	178-1042-78	0.1 μF
C410	178-1032-78	0.01 μF
C411	176-1511-00	150pF CH
C412	176-1511-00	150pF CH
C413	178-1042-78	0.1 μF
C501	178-1042-78	0.1 μF
C502	172-2241-11	0.22 μF
C503	178-1042-78	0.1 μF
C504	183-1073-12	6.3V100 μF
C505	178-1032-78	0.01 μF
C506	183-3353-61	50V3.3 μF
C507	183-1073-12	6.3V100 μF
C508	172-2241-11	0.22 μF
C509	042-0452-02	16V100 μF
C510	178-1032-78	0.01 μF
C511	178-3922-78	3900pF
C512	184-1083-32	16V1000 μF
C513	183-1073-21	10V100 μF
C514	042-0452-01	10V220 μF
C515	183-1043-63	50V0.1 μF
C516	042-0427-94	16V47 μF TAN
C517	178-1032-78	0.01 μF
C519	172-1031-11	0.01 μF
C520	183-1063-51	35V10 μF
C521	183-4763-51	35V47 μF
C601	042-0505-04	10V33 μF
C801	178-6832-78	0.068 μF
C802	183-2263-11	6.3V22 μF
C803	178-6832-78	0.068 μF
C804	183-1073-12	6.3V100 μF
C805	176-1501-00	15pF CH
C806	176-1501-00	15pF CH
C807	178-2242-78	0.22 μF
C808	178-1032-78	0.01 μF
C809	178-1042-78	0.1 μF
C810	176-1011-00	100pF CH
C811	178-1532-78	0.015 μF
C812	178-1032-78	0.01 μF
CCT801	050-0140-54	1kΩ×4
CCT802	050-0140-54	1kΩ×4
CCT803	050-0140-54	1kΩ×4
CCT804	050-0140-54	1kΩ×4
CCT805	050-0140-54	1kΩ×4
CCT806	050-0140-54	1kΩ×4
CCT807	050-0140-54	1kΩ×4
CCT808	050-0140-54	1kΩ×4
CCT809	050-0140-54	1kΩ×4
CCT810	050-0140-52	100Ω×4
CCT811	050-0140-52	100Ω×4
CCT812	050-0140-54	1kΩ×4
CCT813	050-0140-54	1kΩ×4
CCT814	050-0140-54	1kΩ×4
CCT815	050-0140-52	100Ω×4
CCT816	050-0140-54	1kΩ×4
CCT817	050-0140-54	1kΩ×4
CCT818	050-0140-54	1kΩ×4
CCT819	050-0140-54	1kΩ×4
D2	001-2404-90	MA28T-A
D101	001-0330-00	1SS119
D102	001-0330-00	1SS119
D301	001-0330-00	1SS119
D501	001-0330-00	1SS119
D502	001-0330-00	1SS119
D503	001-0376-46	MTZJ9.1A
D503	001-0377-45	MA4082H
D504	001-0330-00	1SS119
D505	001-0377-32	MA4056M
D505	001-0376-32	MTZJ5.6B
D506	001-0421-31	MTZJ18
D506	001-0423-31	MA4180
D507	001-0376-46	MTZJ9.1A
D507	001-0377-45	MA4082H
D508	001-0330-00	1SS119
D509	001-0377-46	MA4091L
D509	001-0376-47	MTZJ9.1B
D510	001-0377-45	MA4082H
D510	001-0376-46	MTZJ9.1A
D512	001-0330-00	1SS119
D513	001-0330-00	1SS119
D515	001-0330-00	1SS119
D518	001-0466-00	S5688B
D522	001-0330-00	1SS119
D523	001-0330-00	1SS119
D530	001-0466-00	S5688B
D701	001-0330-00	1SS119
D702	001-0330-00	1SS119
D801	001-0330-00	1SS119
D802	001-0330-00	1SS119
IC1	051-3027-90	AD820AR
IC101	051-0350-55	NJM4558M
IC102	051-1819-00	SAA6579T
IC103	051-6201-00	LC72146M
IC201	051-5012-00	LC75386
IC202	051-0350-55	NJM4558M
IC301	051-2013-00	TDA7385
IC401	051-6611-08	TSS461CR
IC402	051-6610-18	MTC-30521
IC501	051-1556-05	S-80740AN-D4X
IC502	051-1834-00	LM2936
IC801	052-1156-00	μPD784216BGC-103-8EU
IC802	051-5413-08	S-8052HNM-C[illegible]-T1
IC803	051-1375-35	NM93C46TEM[illegible]
L1	010-8017-00	22mH
L2	010-2230-68	4.7 μH
L3	010-2003-04	COIL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PLZ184A

REF No.	PART No.	DESCRIPTION
L101	010-2230-64	2.2 μH
L102	010-2046-44	1mH
L104	010-2230-88	220 μH
L401	010-2230-10	1 μH
L402	010-2230-64	2.2 μH
P601	074-1186-26	26P
P701	076-0540-18	18P
Q1	108-0669-00	2SK669
Q4	102-2712-00	2SC2712
Q5	103-1858-00	2SD1858
Q101	125-0002-02	RN2402
Q102	103-1306-00	2SD1306
Q103	125-2004-06	RN1406
Q104	125-2004-02	RN1402
Q105	100-1298-00	2SA1298
Q106	100-1162-00	2SA1162
Q107	108-0669-00	2SK669
Q401	102-2712-00	2SC2712
Q402	125-2004-06	RN1406
Q501	102-2712-00	2SC2712
Q502	125-0002-02	RN2402
Q503	103-1858-00	2SD1858
Q504	103-1858-00	2SD1858
Q505	125-0002-02	RN2402
Q506	125-2004-02	RN1402
Q507	100-1162-00	2SA1162
Q508	102-3420-00	2SC3420
Q509	100-1162-00	2SA1162
Q510	125-2004-02	RN1402
Q511	100-1298-00	2SA1298
Q512	125-2004-02	RN1402
Q513	103-1858-00	2SD1858
Q514	103-1858-00	2SD1858
Q515	103-1858-00	2SD1858
Q516	100-1297-00	2SA1297
Q517	125-2004-02	RN1402
Q518	102-2458-00	2SC2458
Q522	125-2004-02	RN1402
Q523	100-1048-00	2SA1048
Q524	125-2004-02	RN1402
Q526	100-1431-00	2SA1431
Q527	100-1428-00	2SA1428
R1	032-0092-89	1/10W 470Ω±1%
R2	032-0092-88	1/10W 10Ω±1%
R3	032-0092-88	1/10W 10Ω±1%
R6	117-3301-10	1/10W 33Ω
R7	111-2221-91	1/4WS 2.2kΩ
R8	117-0000-00	1/10W 0Ω JW
R102	117-1231-10	1/10W 12kΩ
R103	117-1031-10	1/10W 10kΩ
R104	117-1821-10	1/10W 1.8kΩ
R105	117-1041-10	1/10W 100kΩ
R106	117-1521-10	1/10W 1.5kΩ
R107	117-1521-10	1/10W 1.5kΩ
R108	117-2221-10	1/10W 2.2kΩ
R109	117-3921-10	1/10W 3.9kΩ
R110	117-3321-10	1/10W 3.3kΩ
R111	117-1041-10	1/10W 100kΩ
R112	111-3311-91	1/4WS 330Ω
R113	117-2211-10	1/10W 220Ω
R114	117-2221-10	1/10W 2.2kΩ
R115	117-1031-10	1/10W 10kΩ
R116	117-1531-10	1/10W 15kΩ
R117	117-1031-10	1/10W 10kΩ
R118	117-2221-10	1/10W 2.2kΩ
R120	117-1031-10	1/10W 10kΩ

REF No.	PART No.	DESCRIPTION
R121	117-2221-10	1/10W 2.2kΩ
R122	117-1231-10	1/10W 12kΩ
R123	117-4721-10	1/10W 4.7kΩ
R124	117-2221-10	1/10W 2.2kΩ
R125	117-2711-10	1/10W 270Ω
R126	117-1021-10	1/10W 1kΩ
R127	117-1021-10	1/10W 1kΩ
R128	117-1021-10	1/10W 1kΩ
R129	117-1031-10	1/10W 10kΩ
R130	117-1531-10	1/10W 15kΩ
R131	117-1531-10	1/10W 15kΩ
R132	117-8231-10	1/10W 82kΩ
R133	117-8231-10	1/10W 82kΩ
R134	117-1031-10	1/10W 10kΩ
R135	117-1031-10	1/10W 10kΩ
R206	117-4731-10	1/10W 47kΩ
R207	117-4721-10	1/10W 4.7kΩ
R208	117-6831-10	1/10W 68kΩ
R209	117-6831-10	1/10W 68kΩ
R210	117-4721-10	1/10W 4.7kΩ
R211	117-1541-10	1/10W 150kΩ
R212	117-1021-10	1/10W 1kΩ
R213	117-1021-10	1/10W 1kΩ
R214	117-1021-10	1/10W 1kΩ
R215	117-1021-10	1/10W 1kΩ
R218	117-5611-10	1/10W 560Ω
R219	117-5611-10	1/10W 560Ω
R220	117-5611-10	1/10W 560Ω
R221	117-2231-10	1/10W 22kΩ
R222	117-2231-10	1/10W 22kΩ
R223	117-5611-10	1/10W 560Ω
R224	117-5611-10	1/10W 560Ω
R225	117-5611-10	1/10W 560Ω
R226	117-6821-10	1/10W 6.8kΩ
R227	117-6821-10	1/10W 6.8kΩ
R301	117-1031-10	1/10W 10kΩ
R303	117-1031-10	1/10W 10kΩ
R401	117-4731-10	1/10W 47kΩ
R403	117-4731-10	1/10W 47kΩ
R404	032-0092-90	1/10W 10kΩ±1%
R405	111-4321-91	1/4WS 4.3kΩ
R406	111-4321-91	1/4WS 4.3kΩ
R407	111-5101-91	1/4WS 51Ω
R408	111-5101-91	1/4WS 51Ω
R409	060-0108-00	1/6ZP 0Ω JW
R501	117-2231-10	1/10W 22kΩ
R502	117-4731-10	1/10W 47kΩ
R503	032-0092-02	1/10W 220kΩ±1%
R504	117-2221-10	1/10W 2.2kΩ
R505	117-6821-10	1/10W 6.8kΩ
R506	032-0092-36	1/10W 470kΩ±1%
R507	111-1021-91	1/4WS 1kΩ
R508	111-1091-91	1/4WS 1Ω
R509	111-1091-91	1/4WS 1Ω
R510	117-2231-10	1/10W 22kΩ
R511	117-1021-10	1/10W 1kΩ
R512	111-2211-91	1/4WS 220Ω
R513	117-4741-10	1/10W 470kΩ
R514	117-1031-10	1/10W 10kΩ
R515	117-1031-10	1/10W 10kΩ
R516	117-2741-10	1/10W 270kΩ
R517	111-1811-81	1/2WS 180Ω
R518	111-1521-91	1/4WS 1.5kΩ
R519	117-1031-10	1/10W 10kΩ
R520	111-1091-91	1/4WS 1Ω
R521	111-1091-91	1/4WS 1Ω

REF No.	PART No.	DESCRIPTION
R522	111-1091-91	1/4WS 1Ω
R523	111-2211-81	1/2WS 220Ω
R526	111-1521-91	1/4WS 1.5kΩ
R527	117-1021-10	1/10W 1kΩ
R528	117-1031-10	1/10W 10kΩ
R532	117-4721-10	1/10W 4.7kΩ
R533	111-1821-91	1/4WS 1.8kΩ
R534	117-1031-10	1/10W 10kΩ
R535	117-1031-10	1/10W 10kΩ
R541	111-1001-81	1/2WS 10Ω
R543	111-2201-91	1/4WS 22Ω
R544	114-2291-11	1W 2.2Ω
R548	117-0000-00	1/10W 0Ω JW
R550	117-1031-10	1/10W 10kΩ
R551	117-4721-10	1/10W 4.7kΩ
R557	117-1021-10	1/10W 1kΩ
R558	117-0000-00	1/10W 0Ω JW
R601	117-1031-10	1/10W 10kΩ
R602	117-1031-10	1/10W 10kΩ
R801	117-4731-10	1/10W 47kΩ
R802	117-1041-10	1/10W 100kΩ
R803	117-1041-10	1/10W 100kΩ
R804	117-1041-10	1/10W 100kΩ
R805	117-4721-10	1/10W 4.7kΩ
R806	117-4721-10	1/10W 4.7kΩ
R812	117-1031-10	1/10W 10kΩ
R813	117-1031-10	1/10W 10kΩ
R815	117-1031-10	1/10W 10kΩ
R816	117-1031-10	1/10W 10kΩ
R817	117-1031-10	1/10W 10kΩ
R818	117-1031-10	1/10W 10kΩ
R819	117-4721-10	1/10W 4.7kΩ
R820	117-1031-10	1/10W 10kΩ
R826	117-2241-10	1/10W 220kΩ
R827	117-1031-10	1/10W 10kΩ
R830	117-1021-10	1/10W 1kΩ
R831	117-1021-10	1/10W 1kΩ
R832	117-1021-10	1/10W 1kΩ
R833	117-0000-00	1/10W 0Ω JW
R834	117-0000-00	1/10W 0Ω JW
R836	117-1021-10	1/10W 1kΩ
R839	117-1031-10	1/10W 10kΩ
R841	117-4721-10	1/10W 4.7kΩ
R842	117-2241-10	1/10W 220kΩ
R843	117-1021-10	1/10W 1kΩ
R844	117-1021-10	1/10W 1kΩ
R845	117-1021-10	1/10W 1kΩ
R846	117-1021-10	1/10W 1kΩ
R847	117-1021-10	1/10W 1kΩ
R848	117-1011-10	1/10W 100Ω
R852	117-0000-00	1/10W 0Ω JW
R853	117-0000-00	1/10W 0Ω JW
R854	117-0000-00	1/10W 0Ω JW
R855	117-0000-00	1/10W 0Ω JW
R857	117-0000-00	1/10W 0Ω JW
R858	117-0000-00	1/10W 0Ω JW
SUP1	060-0122-20	DSP-141N-S00B
TH501	002-0303-00	6.8Ω
X100	061-3013-50	4.33MHz
X100	061-3013-00	4.33MHz
X101	061-1066-50	7.2MHz
X101	061-1066-00	7.2MHz
X401	061-3031-00	4.00MHz
X801	061-1081-50	12MHz

Switch PWB section(B2)

REF No.	PART No.	DESCRIPTION
J101	074-1211-18	18P
PL101	017-0345-09	14V40mA
PL102	017-0454-00	14V40mA
PL103	017-0454-00	14V40mA
PL104	017-0454-00	14V40mA
PL105	017-0345-09	14V40mA
S101	013-3741-11	SKQCAE
S102	013-3741-11	SKQCAE
S103	013-3741-11	SKQCAE

REF No.	PART No.	DESCRIPTION
S104	013-3741-11	SKQCAE
S105	013-3741-11	SKQCAE
S106	013-3741-11	SKQCAE
S107	013-3741-11	SKQCAE
S108	013-3741-11	SKQCAE
S109	013-3741-11	SKQCAE
S110	013-3741-11	SKQCAE
S111	013-3741-11	SKQCAE
S112	013-3741-11	SKQCAE

REF No.	PART No.	DESCRIPTION
S113	013-3741-11	SKQCAE
S114	013-3741-11	SKQCAE
S115	013-3741-11	SKQCAE
S116	013-3741-11	SKQCAE
S117	013-3741-11	SKQCAE
S118	013-3741-11	SKQCAE
VR101	016-0010-12	VR W/SHAFT

ISO PWB section(B3)

REF No.	PART No.	DESCRIPTION
D1	001-0334-30	RL202
F1	060-0057-06	FUSE 10A

REF No.	PART No.	DESCRIPTION
J1	074-1159-01	OUTLET SOCKET
P1	076-0324-10	10P

REF No.	PART No.	DESCRIPTION
P2	076-0324-14	14P
T2	009-9006-60	0.23mH

CD mech PWB section(CD mechanism)(B4)

REF No.	PART No.	DESCRIPTION
C1	183-1073-12	6.3V100 μF
C2	183-4763-11	6.3V47 μF
C3	178-1042-78	0.1 μF
C4	176-2201-00	22pF CH
C5	176-1801-00	18pF CH
C6	176-1801-00	18pF CH
C7	176-8201-00	82pF CH
C8	178-1042-78	0.1 μF
C9	178-2242-78	0.22 μF
C10	178-2242-78	0.22 μF
C11	176-4701-00	47pF CH
C12	178-1532-78	0.015 μF
C13	178-1032-78	0.01 μF
C14	178-2722-78	2700pF
C15	178-4722-78	4700pF
C16	176-1201-00	12pF CH
C17	178-4712-78	470pF
C18	178-4712-78	470pF
C19	178-4732-78	0.047 μF
C20	178-4732-78	0.047 μF
C21	178-4732-78	0.047 μF
C22	178-4732-78	0.047 μF
C23	178-1032-78	0.01 μF
C25	042-0505-01	10V22 μF
C26	178-1042-78	0.1 μF
C27	178-1042-78	0.1 μF
C29	178-1042-78	0.1 μF
C30	178-1042-78	0.1 μF
C31	178-1032-78	0.01 μF
C32	178-1032-78	0.01 μF
C33	178-1042-78	0.1 μF

REF No.	PART No.	DESCRIPTION
C34	176-1501-00	15pF CH
C35	176-1501-00	15pF CH
C38	178-1022-78	1000pF
C39	178-1042-78	0.1 μF
C40	178-1042-78	0.1 μF
C41	183-1073-12	6.3V100 μF
C43	183-1073-12	6.3V100 μF
C44	183-4763-11	6.3V47 μF
C45	183-1073-12	6.3V100 μF
C46	178-1032-78	0.01 μF
C47	178-1042-78	0.1 μF
C48	178-1032-78	0.01 μF
C49	176-6801-00	68pF CH
C51	178-1032-78	0.01 μF
C52	178-1032-78	0.01 μF
C54	183-4763-11	6.3V47 μF
C55	178-1042-78	0.1 μF
C56	178-1042-78	0.1 μF
C58	178-1042-78	0.1 μF
C59	178-2222-78	2200pF
D1	001-0563-00	GL380
D2	001-0563-00	GL380
D3	001-0563-00	GL380
D4	001-0330-00	1SS119
IC1	051-5704-00	TA2096FN
IC2	051-6342-00	TC9462F
IC3	051-6026-08	TA2058F
IC4	051-6027-00	BA6283N
L1	010-2155-03	10 μH
L3	010-2199-74	10 μH J

REF No.	PART No.	DESCRIPTION
Q1	101-1237-50	2SB1237QR
Q2	102-2712-00	2SC2712
R1	117-1011-10	1/10W 100Ω
R2	117-1841-10	1/10W 180kΩ
R3	117-1841-10	1/10W 180kΩ
R4	117-2201-10	1/10W 22Ω
R5	117-8231-10	1/10W 82kΩ
R6	117-1041-10	1/10W 100kΩ
R7	117-1041-10	1/10W 100kΩ
R8	117-1031-10	1/10W 10kΩ
R9	117-2221-10	1/10W 2.2kΩ
R10	117-1031-10	1/10W 10kΩ
R12	117-1031-10	1/10W 10kΩ
R13	117-4731-10	1/10W 47kΩ
R15	117-4741-10	1/10W 470kΩ
R17	117-3331-10	1/10W 33kΩ
R18	117-3311-10	1/10W 330Ω
R19	117-3321-10	1/10W 3.3kΩ
R20	117-1031-10	1/10W 10kΩ
R21	117-3321-10	1/10W 3.3kΩ
R22	117-3321-10	1/10W 3.3kΩ
R23	117-3321-10	1/10W 3.3kΩ
R24	117-3321-10	1/10W 3.3kΩ
R26	117-1041-10	1/10W 100kΩ
R27	117-4711-10	1/10W 470Ω
R28	117-2211-10	1/10W 220Ω
R29	117-2211-10	1/10W 220Ω
R30	117-4721-10	1/10W 4.7kΩ
R34	111-2711-91	1/4WS 270Ω
R40	117-3321-10	1/10W 3.3kΩ
X1	061-3051-00	16.92MHz

Sensor PWB section(CD mechanism)(B5)

REF No.	PART No.	DESCRIPTION
Q101	060-0252-01	PT4850F

REF No.	PART No.	DESCRIPTION
Q102	060-0252-01	PT4850F

REF No.	PART No.	DESCRIPTION
Q103	060-0252-01	PT4850F

Limit switch PWB section(CD mechanism)(B6)

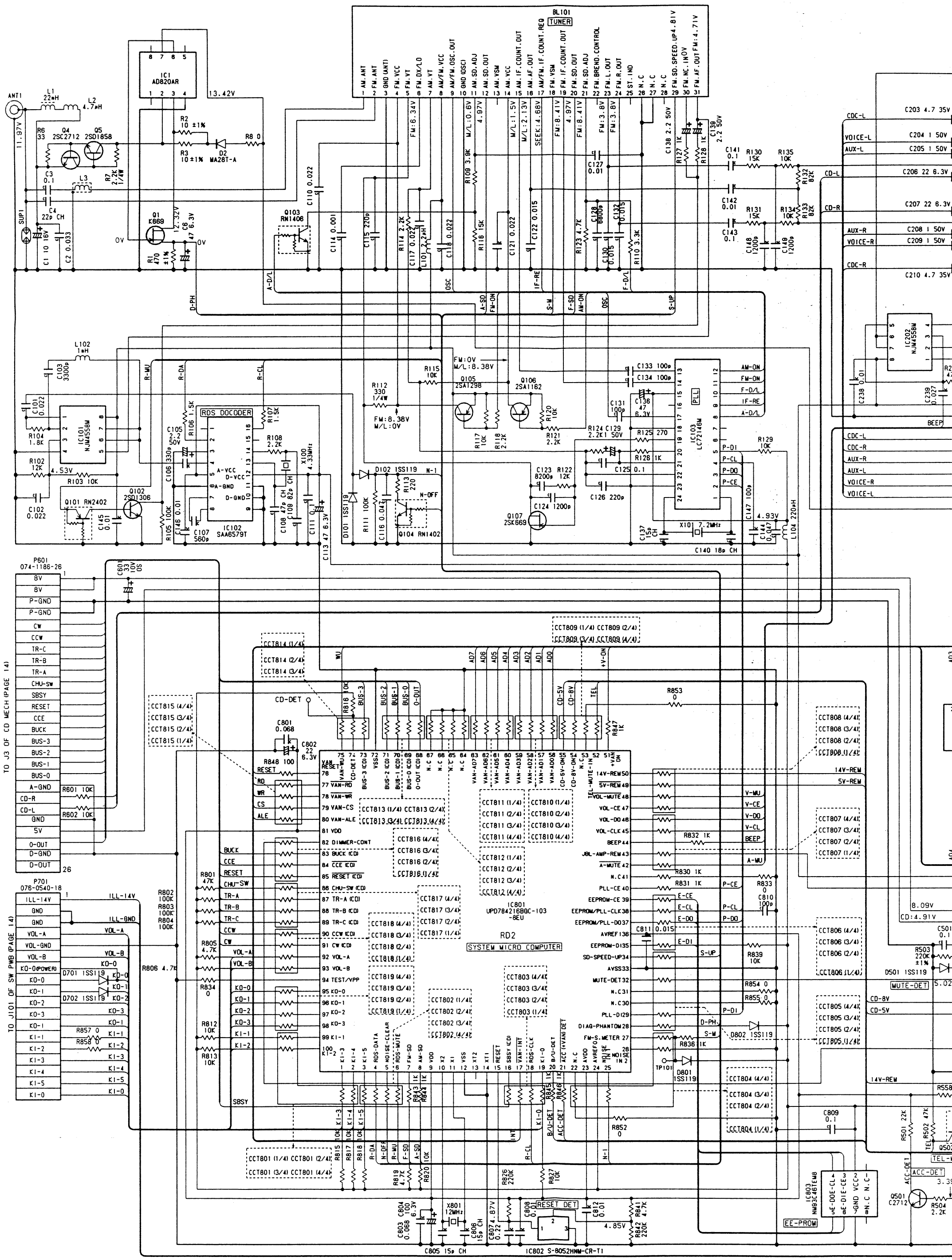
REF No.	PART No.	DESCRIPTION
S1	013-7100-00	LIMIT

Chucking switch PWB section(CD mechanism)(B7)

REF No.	PART No.	DESCRIPTION
S2	013-3879-01	CHUCKING

■CIRCUIT DIAGRAM

Main PWB section(B1)



ELE-VOLUME
IC201
LC75386

IC301
TDA7385
POWER

VAN CONTROLLER
IC401
TSS461CR

IC402
MTC-30521
VAN INTERFACE

IC202
NJM4558M

IC501
S-80740AN-D4-X

IC502
LM2936

Q401 2SC2712
Q402 RN1406
Q501 C2712
Q502 RN2402
Q503 2SD1858
Q504 2SD1858
Q505 RN2402
Q506 RN1402
Q507 2SA1162
Q508 2SC3420
Q509 2SA1162
Q510 RN1402
Q511 2SA1298
Q512 RN1402
Q513 2SD1858
Q514 2SD1858
Q515 2SD1858
Q516 2SA1297
Q517 RN1402
Q518 C2458
Q522 RN1402
Q523 A1048
Q524 RN1402
Q526 2SA1431
Q527 2SA1428

D501 1SS119
D502 1SS119
D503 MTZ9.1JA
D504 1SS119
D505 MTZ5.6JB
D506 MTZJ18
D507 MTZ9.1JA
D509 MTZ9.1JB
D510 MTZ9.1JA
D512 1SS119
D513 1SS119
D515 1SS119
D518 S5688B
D523 1SS119
D530 S5688B
D301 1SS119

TH501 6.8

CDC-L
CDC-R
AUX-R
AUX-L
VOICE-R
VOICE-L
CD-L
CD-R
AUX-R
VOICE-R
CDC-R
BEEP

V-CL
V-DO
V-CE
V-WU
A-MU
WU
+V-ON
+VAN-ON
AMP-REM-ON
MUTE-DET
CD-5V-ON
CD-8V-ON
DIMM-ON
TEL-MUTE
ACC-DET
B/U-DET
SV-REM
14V-REM
5V-REM
CD-8V
CD-5V
ILL-14V
ILL-GND

FL
RL
RR
FR
FL-
FL+
FR-
FR+
RR-
RL+
RL-
RR+

S-GND
GND
TEL-M
DATA/
DATA
+VAN
+12V-SW
AMP-REM
M-ANT
P-14V
+14V
MUTE

TO P2 OF ISO PWB (PAGE 14)
TO P1 OF ISO PWB (PAGE 14)
TO J1 OF ISO PWB (PAGE 14)

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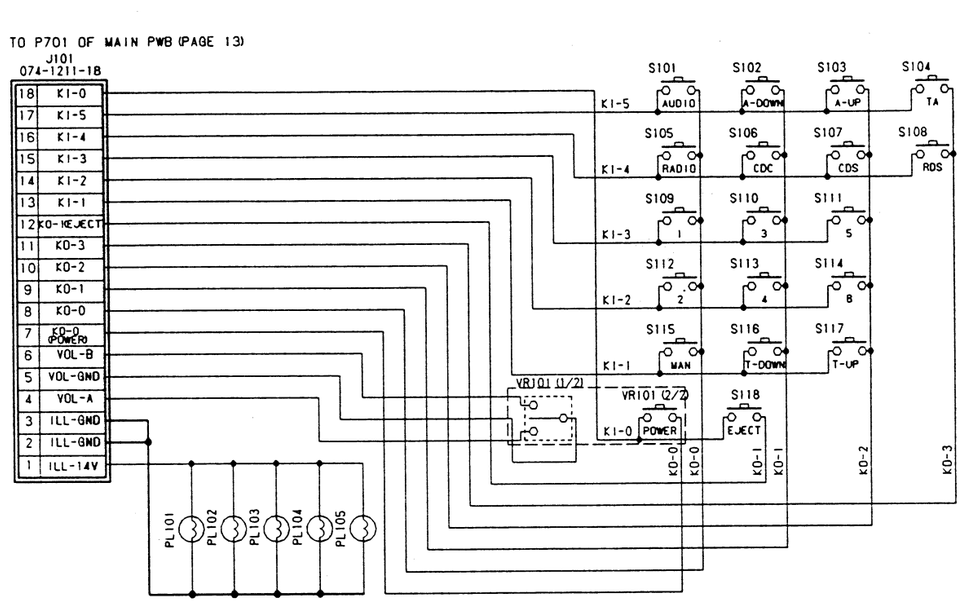
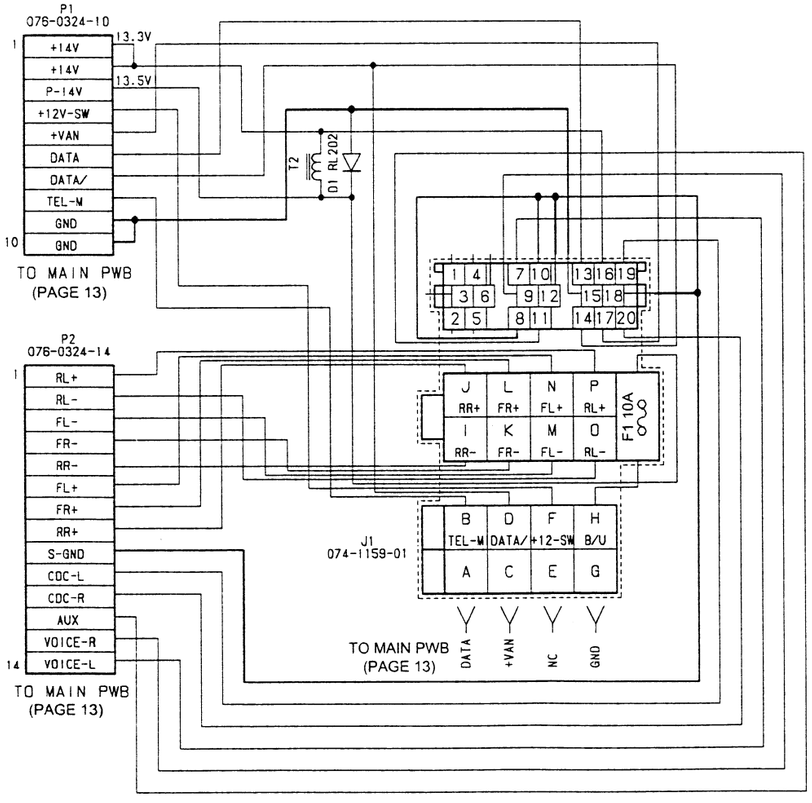
Switch PWB section(B2)



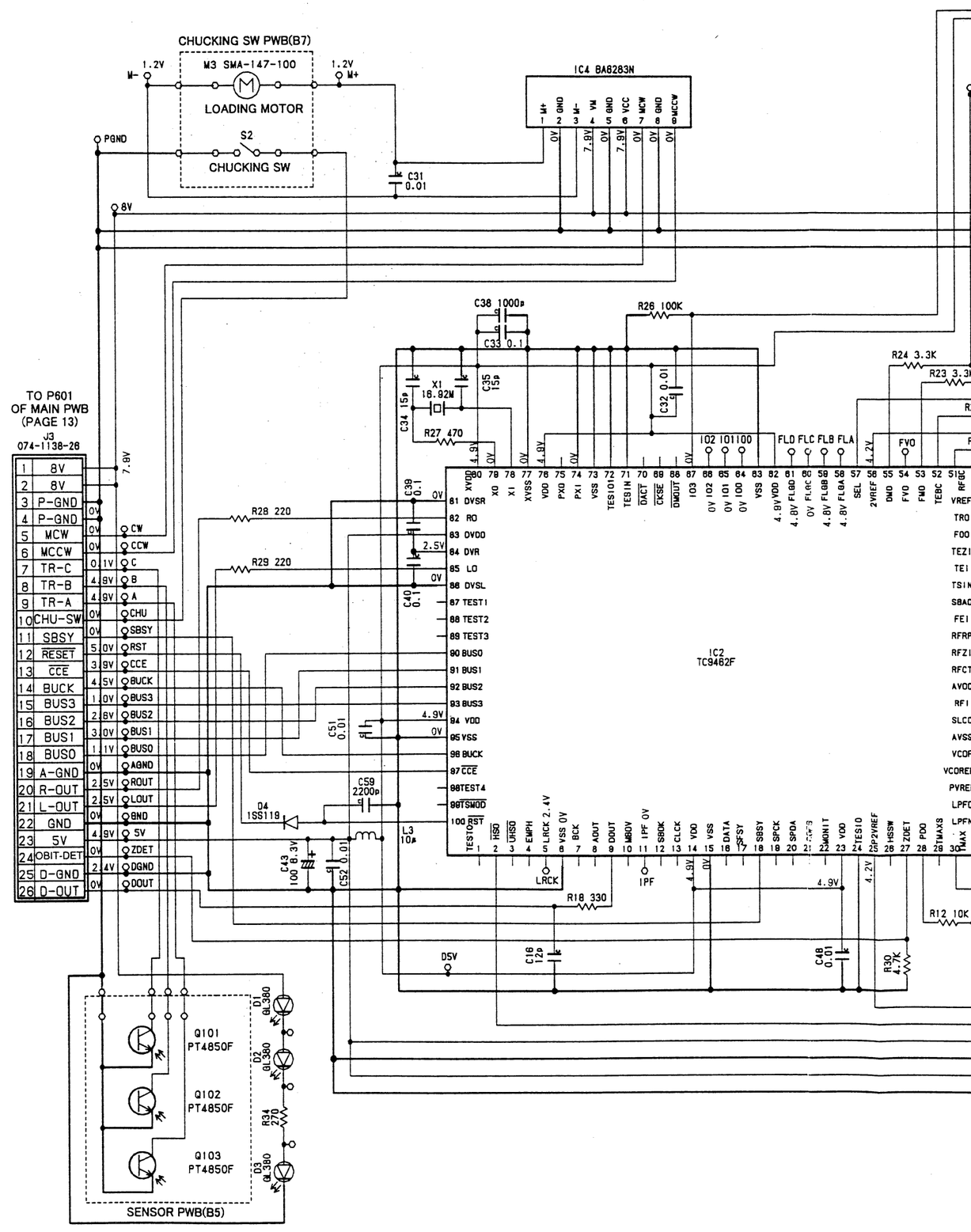
ISO PWB section(B3)



No.	Description
1	N.C
2	N.C
3	N.C
4	N.C
5	N.C
6	N.C
7	VOICE-SYN-L
8	VOICE-SYN-S-G
9	VOICE-SYN-R
10	VOICE-SYN-S-G
11	AUX-AUDIO-IN
12	AUX-GND
13	VAN-DATA
14	VAN-DATA/
15	CD-A/C-GND
16	CD-A/C-B/U
17	+VAN
18	CD-A/C-S-GND
19	CD-A/C-L
20	CD-A/C-R

No.	Description
A	DATA
B	TEL MUTE
C	+VAN
D	DATA/
E	N.C
F	+12-SW
G	GND
H	BACK UP
I	REAR SP RIGHT−
J	REAR SP RIGHT+
K	FRONT SP RIGHT−
L	FRONT SP RIGHT+
M	FRONT SP LEFT−
N	FRONT SP LEFT+
O	REAR SP LEFT−
P	REAR SP LEFT+

CD mechanism section(B4~7)

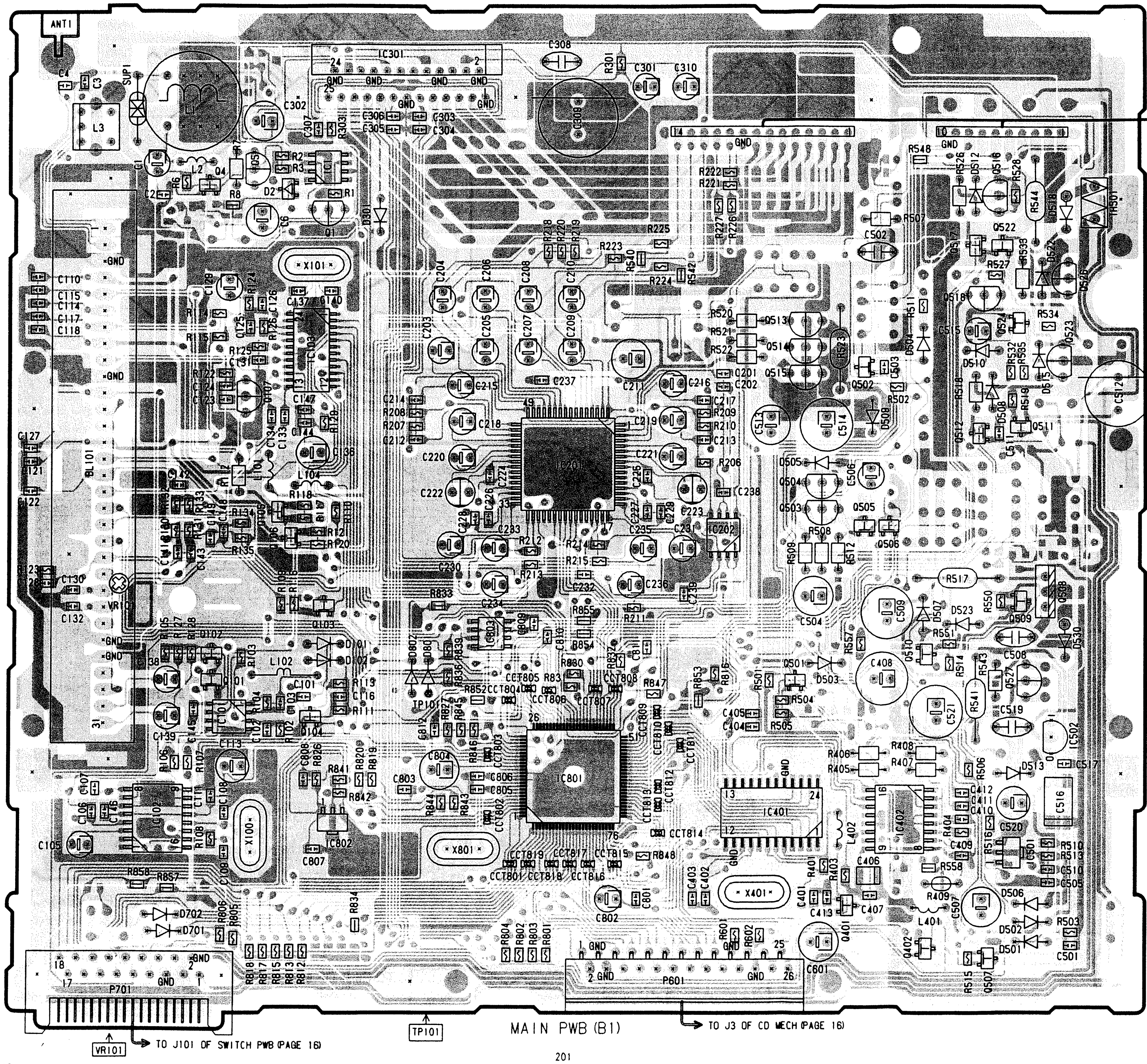


No.	Description
1	N.C
2	N.C
3	N.C
4	N.C
5	N.C
6	N.C
7	VOICE-SYN-L
8	VOICE-SYN-S-G
9	VOICE-SYN-R
10	VOICE-SYN-S-G
11	AUX-AUDIO-IN
12	AUX-GND
13	VAN-DATA
14	VAN-DATA/
15	CD-A/C-GND
16	CD-A/C-B/U
17	+VAN
18	CD-A/C-S-GND
19	CD-A/C-L
20	CD-A/C-R

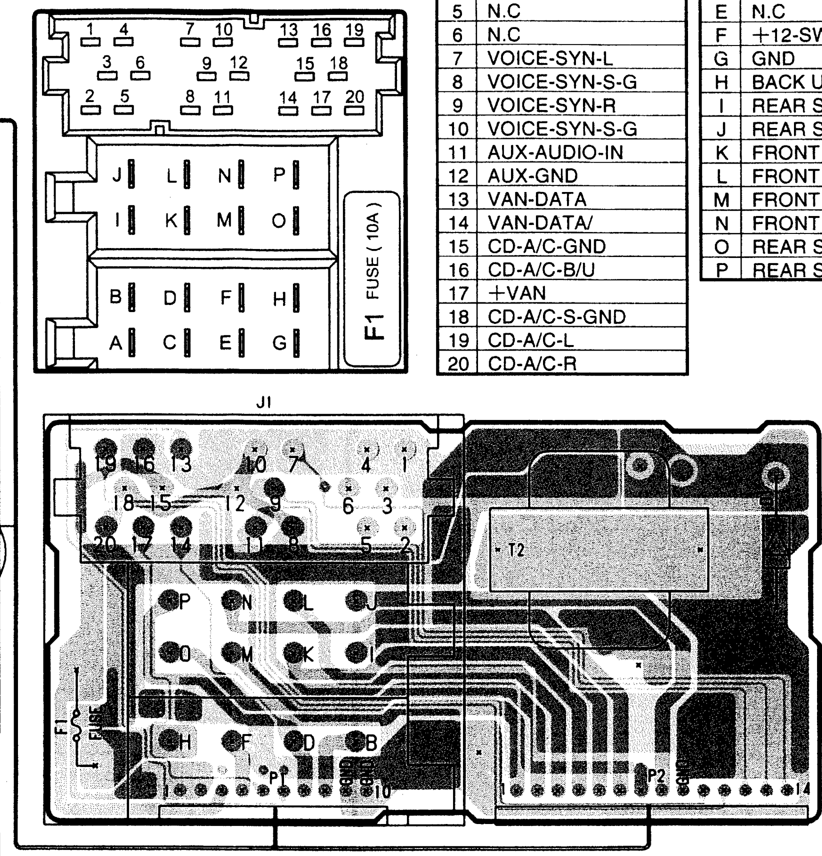
No.	Description
A	DATA
B	TEL MUTE
C	+VAN
D	DATA/
E	N.C
F	+12-SW
G	GND
H	BACK UP
I	REAR SP RIGHT−
J	REAR SP RIGHT+
K	FRONT SP RIGHT−
L	FRONT SP RIGHT+
M	FRONT SP LEFT−
N	FRONT SP LEFT+
O	REAR SP LEFT−
P	REAR SP LEFT+

■PRINTED WIRING BOARD

Main PWB section(B1) / ISO PWB section(B3)



MAIN PWB (B1)



J1

ISO PWB (B3)

No.	Description
1	N.C
2	N.C
3	N.C
4	N.C
5	N.C
6	N.C
7	VOICE-SYN-L
8	VOICE-SYN-S-G
9	VOICE-SYN-R
10	VOICE-SYN-S-G
11	AUX-AUDIO-IN
12	AUX-GND
13	VAN-DATA
14	VAN-DATA/
15	CD-A/C-GND
16	CD-A/C-B/U
17	+VAN
18	CD-A/C-S-GND
19	CD-A/C-L
20	CD-A/C-R

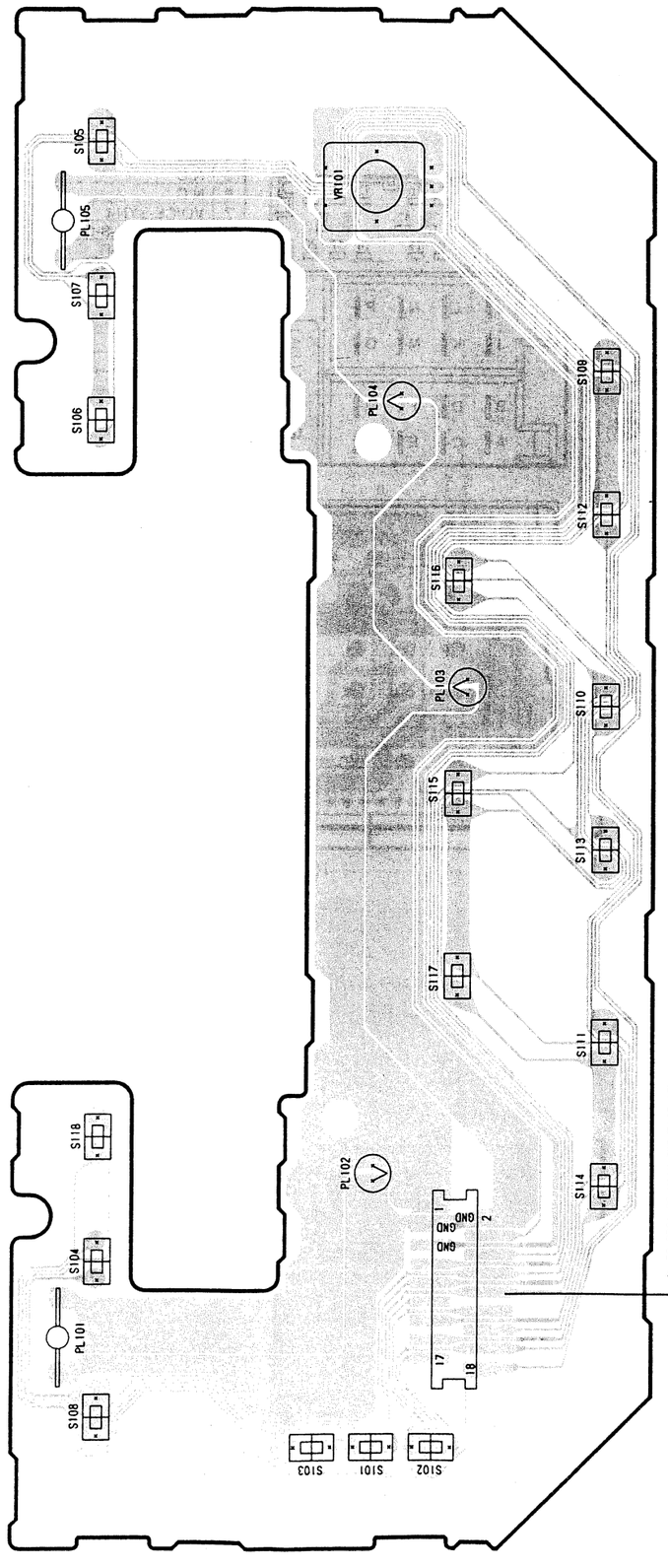
No.	Description
A	DATA
B	TEL MUTE
C	+VAN
D	DATA/
E	N.C
F	+12-SW
G	GND
H	BACK UP
I	REAR SP RIGHT−
J	REAR SP RIGHT+
K	FRONT SP RIGHT−
L	FRONT SP RIGHT+
M	FRONT SP LEFT−
N	FRONT SP LEFT+
O	REAR SP LEFT−
P	REAR SP LEFT+

IC: 102 101 103 1 802 301 803 201 801 202 401 402 501 502

Q: 4 102 101 5 105 107 106 104 1 103 513 514 515 504 503 501 401 502 505 510 402 506 518 512 517 507 527 522 516 524 509 511 523 508 526

PU-2184A

Switchn PWB section(B2)



CD mechanism section(B4~7)